W6NWG W6NWG W6NWG W6NWG

# Scope
W6NWG
## Palomar Amateur Radio Club Inc.
Post Office Box 73, Vista, California 92085-0073

AUGUST ******* 1994 ** 58 YEARS OLD
Volume XX, Number 08
Published monthly by PARC
an ARRL Special Service Club
Membership $12including $3for SCOPE outside SDC.$4,Coffee7pm,Mtg.7:30pm Carlsbad Safety Center(CSC),Palomar Airport Rd.to N.on Camino Real(S11) east on Faraday .25 mi,left to CSC, ThomasBro.Pg.14F6. Talk-in 146.730.
Editor:Stan-W9FQN 30311 Circle R Ln
Valley Center, CA 92082-4806
749-0276, 11:30am or 9:45pm

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*** E L M E R S *** (call for info)

| | |
|---|---|
| CARDIFF, . | Duane-WB6R,753-4821 |
| CARLSBAD, . | Ron-KM6MW, 436-6908 |
| CHULA VISTA, | Steve-N6RUV,422-4415 |
| ESCONDIDO Pres | Harry-WA6YOO,743-4212 |
| La MESA, . | Roger-N6UUW,697-6025 |
| LAKESIDE, . | Mac-WB6GXR,561-2211 |
| RAMONA, . | Vern-AA6UU,789-3070 |
| SAN DIEGO, . | Dennis-N6KI,271-6079 |
| $AN MARCO$ . | Ralph-KC6WAN,727-7415 |
| VISTA, . . . | Jack-KI6JM,598-0420 |
| SAN MARCOS, | Rusty-AA6OM,747-5872 |

Prospective amateurs ONLY can call 1-800-32-NEW-HAM @ the ARRL Hdq 8am-5pm ET M-F for Ham Info.

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%%%%%%%% C A L E N D A R %%%%%%%%

Aug 1 Mon BEGINNING of NEW CLUB YR.
**********************************
Dues $12/$21 family, UR Last SCOPE?
**********************************
Aug 3 Wed. PALOMAR ARC CLUB MEETING
Aug 5 Fri.TASMA Mtg.LongB YachtClub
Aug 7 Sun.Workparty repeater site**
Aug 8 Anniversary of 16T 80'TwrBase
Aug11 Thu. PARC 7pm Board Meeting
Aug13 Sat.PARC VE Tests Carlsbad SC
Aug26 Fri.Deadline 4 SCOPE articles
Aug26-28 SW DIV CONVENTION SanDiego
Aug29 Tue. SCOPE into mail at Vista
Sep 3 Sat.Pal.Mt.Fire Dept BARBEQUE
Sep11 Sun.Workparty repeater site**
Sep18 Sun.PARC PICNIC LAKE HODGES**
with Harry Hodges *****

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OPEN REPEATERS / CLOSED AUTOPATCHES

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PARC PALOMAR MT.REPEATERS(W6NWG):
PARC W6NWG trustee: Ron-WI6B
Auto Patches-4: 146.73-, 147.075+*
147.13+*, 449.425-*
PACKET: 145.05s; RTTY: 146.700
SIMPLEX: 145.350s,145.520s,446.000s
ATV: 1241.25T(out) / 919.25R(in),
ATV Intercom 146.43s PL 79.7Hz.
COVERING 2000 SQ-MI OF SDCo.
OTHER:224.38-*KK6KD; 224.9-*WD6HFR
146.175+*WA6IPD;*=All 107.2Hz

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NEXT MEETING KC6UQH

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VP Art McBride-KC6UQH has announced that the August club meeting will be by John-KD6CDH & Rod-AC6V with practical info on how to get started on Packet: cables, connections, computer vs dumb terminal & how to get fired up.

(S)HOW & (T)ELL: See Art-KC6UQH B4 meeting to reserve time.

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S W D I V C O N V E N T I O N

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The ARRL Southwest Division convention is in San Diego this year on August 26, 27, and 28th at the Town & Country Convention Center. We hope that all Palomar Amateur Radio Club members will be attending and that they will urge **their non-PARC club member friends to also attend.**

If you are a relative new ham, you will want to see many of the old and new aspects of amateur radio. If you are an older ham, there have been great advances in many areas. So ..U-all come! One and all!

$$ P R I Z E S $$

SANDARC (a council of SDCo Clubs of which PARC is a member) will have $1000's of dollars of prizes: TS-50, Yaesu 840, ICOM HT, US tower, etc. and more if we have enough pre-registrations. The hourly prizes are too humerous to mention but try to imagine being the owner of:
Hygain TH3MK4 3el tribander $369; 2m/440 mobile ant $50; dualband MBL ant $28; 12vdc pwr center $39; Nuts & Volts sub $34; AA6EE ARRL aids $22; Ramsey kits $100; LCR meter $119; 2-dualband ant $190; 13-hats $110; 2-T-shirts $24; Smart Bat Charger $80; RTTY sub $20; radio holder $25; ant balun kit $124; Charles Simmons 6-asstd items $250; SGC ant tuner $600; HRO (D)iscount (o)n (p)urchase (Dop) $??; I.C. Engineering Dop $??; ICOM 35% Dop; Palomar Engrs Dop $??; Radio Engrs Cont.pg.6)

BOARD MEMBERS present:
President : Harry Hodges, WA6YOO
VPpresident: Art Mc Bride, KC6UQH
Sec(temp) : Jack Hanthorn-KI6JM
Treasurer : Jennifer Thieme, KM6WG
SCOPE/etc : Stan Rohrer, W9FQN
Membership : Ralph Powell, KC6WAN
Board Member:Rick Zimmermann, KC6LV
absent W6HCD, WB6IQS, & AB6QT
- also present -
OTHERS:Sybil-W6GIC-ATV,John-KE6CDH, Erik-KE6CLM

Club members are invited to attend Board meetings to observe the Board of Directors in action ..or non-action ..and receive one activity pt. for attending. GREAT BROWNIES, HARRY! (Time 7pm-10pm)

- HOURS -

DISCUSSED: EquipBal $2022, Gen $548, PrePd $5592, PO $140, SEE FINANCE page 9; programs; 20' trailer donation; post office; SWDivConv; autopatch control dropping; work parties; membership 809; PARC classes end.

APPROVED: buying membership cards; $700 lightning equip; $150 fans etc; sell boat-trailer; wrk party Aug 7th; John-KE6CDH picnic chairman; TASMA owner-coordination-trustee letters; buy rope for members; KI6JM to take minutes;

The following motions by W9FQN were approved:

1)The following INCOME(s) are to be used to finance CAPITAL items at the repeater site and Field Day: SCOPE ad money, equipment sales, goodies table, rental monies, sales of electonic items (10% rule).

2)Dues monies, ARRL subscription profits, rope sales, etc are to be used for the general operation of the club, ie: SCOPE, operational supplies, Post Office, supplies, supplies FD, supplies repeater site, FD food, fuses, picnic expenses, battery water, electric bills, insurance, etc.

3)All general purpose funds, if any, are to be moved to the equipment fund on July 31st and that the picnic prizes be paid from the equipment fund.

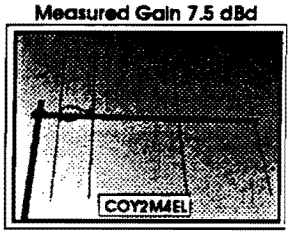
4)W9FQN given permission to move a HW-101 xcvr to RACES station in Carlsbad.

5)5th motion not voted upon.

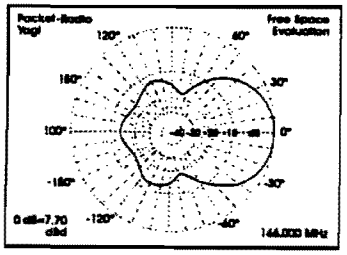
Swiech Communication Systems

Two Meter Yagi Great for Packet Radio or FM

Measured Gain 7.5 dBd




H-Plane beamwidth 60 deg
Bandwidth 144.5-147.5 MHz
SWR < 1.7 at Band Edge
Impedance 50 ohm
Silver Plated Teflon SO-239
Maximum Power 500 Watts
Chemfilm Treatment On Brackets
Balanced Matching System
Two Part RTV Potting
Black Delrin Insulators




(619) 748-2286
Gene Swiech, WB9COY

Please contact one of the board members for more info or see the secretary for written minutes.

NEWSLETTER HELPERS JUL. SCOPE: KI6JM,Jack Hanthorn,Folding,Refresh W6TFB, . Lloyd Hunt, . Folding KC6WAN,Ralph Powell,Printing,Labels KB6YHZ, . Art Nye, . Folding WA6UTQ, . Larry Ruegseger, Folding WA6YOO, . Harry Hodges, . Staples KB6YHY, . Anita Nye, . Labels N6WQR, Bernice Rosenberg, Labels W9FQN, Stan Rohrer, Editor,PO Forms

The Fold-Staple-Multilate-The-SCOPE-group meets at Jack-KI6JM's QTH in Vista at 12:30pm & finishes abt 2pm. WE CAN ALWAYS USE MORE HELP. FSMTS is Tues of the week B4 club's 1st Wed club meeting. Receive 1 activity pt 4 participating in fun & games. Jokes told R "out of this world!"

## LAST MEETING

In attendance were 98 members, 11 guests, for a total attendance of 109. PLEASE COME EARLY and help set up chairs.

Many thanks to Nash Williams, W6HCD, PARC's club Secretary, for the excelent program on Solar Cells and associated equipment. The club has a solar pannel but has not used it at the repeater site because a)our batteries require 3.2A "trickle charge", and b)the site is surrounded by tall trees meaning that sunlight is limited at our location. We have decided not to tower mount the pannel because it would increase the tower "wind loading" and it provides only 1.6A of charging when we really need a little over 3A of trickle charge. "Little Joe's" 1.kw AC generator at the site can be used in emergencies.

SHOW & TELL featured Bill-KB6MCU with yet another repeater that he built on 70cm and xyz.

ART-KB6YHZ supervised the coffee with BECKY-KE6BUE and Gerry Jones supervising the drink and goodie table with members bringing goodies: N6TCB, KM6PY, W6GIC, N6WQR, K6YGK, N6ELP, KM6MW, KE6CDH, N6ISC, KD6BUE, KD6YJB, N6QQF, & WB6GXR.

The goodies were great & U were rewarded with "1" participation ticket.

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ALL MAJOR BRANDS IN STOCK NOW!
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5375 KEARNY VILLA ROAD, SAN DIEGO

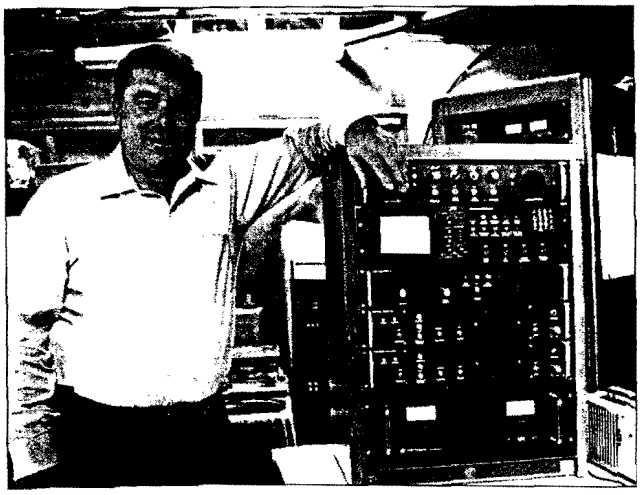
**Southern California ATV repeater:** In January, the Palomar ARC board of directors approved a proposal by Gene Swiech, WB9COY, of Poway; Sybil Allbright, W6GIC, and Bill Smith, KB6MCU, of San Diego (shown); and Michael Collis, WA6SVT, of Crestline, to commit to developing an amateur television (ATV) repeater on Palomar Mountain in San Diego County. Bill built the repeater in Sybil's workshop and it was demonstrated at the club's March meeting.

The call sign is W6NWG, and its main input is on 919.25 MHz with the output on 1241.25 MHz. Intercom talkback is provided on 146.43 MHz, and there are plans for a 2.4-GHz FM ATV input.

Phase 2 of the project will provide additional receivers at a remote site, making it possible to link northward to additional repeaters in the Amateur Television Network. Additional inputs will allow San Diego County emergency agencies, such as AIR-EVAC, to use their existing 70-cm ATV transmitters to access the repeater, and to retransmit NASA space shuttle video.

Phase 3 will include a portable ATV station with two built-in wireless microphone receivers and multiple camera inputs to televise club functions and on-site disaster coverage, and for educational Amateur Radio demonstrations at schools, air shows and other special events.

*—Sybil Allbright, W6GIC, San Diego, California*


RICK ROESSLER

PRESIDENTIAL QRM WA6YOO

The other day I had the pleasure of addressing the "Senior Anglers" club of Escondido. A group more devoted to the art of fishing you are not likely to find. My topic was of course, Amateur Radio. I shared the speaker's platform with Al Fahnestock, N6GNB. He discussed VHF/UHF while I talked about HF and DXing.

Prior to my presentation, I had the good fortune to run across an article in "World Radio" wherein a Ham compares our hobby with that of the dedicated angler. He pointed out that there were more "likes" than "unlikes" and that the self discipline is required if one is to

become successful at either.

I know that I am "preaching to the choir" but there are a few on the air activities that only the practice of self discipline will correct. See if any of the following are familiar and whether you need to change:

"Kerchunking" the repeater to see if it is "up" without identifying.

Responding to a "jammer" rather than ignoring him.

Using inappropriate or profane words over the air. Remember, youngsters may be listening in.

Not pausing between transmissions to allow others to break in if they need to use the machine.

Being long winded (I'm probably as guilty of that as anyone).

Using an autopatch to avoid a long distance call, e.g. using your rig to call home when you are parked ten feet from your office door.

Well, there's half dozen for you to cogitate over. Each of you could add another half dozen I am sure. Hope to hear you on one of our repeaters.

Just a reminder - ARRL SW Div Convention - August 26-28 - See you there.

73, Harry WA6YOO.

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M E M B E R S H I P KC6WAN

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NEW CLUB MEMBERS wanting confirmation of their membership and/or an autopatch information sheet should send to me at the club's address a (S)elf-(A)ddressed (S)tamped (E)nvelope (SASE) requesting same. =SK=

WE ARE GOING TO MAKE IT EASIER FOR OLD MEMBERS TO RENEW BY MAIL ..NO SPECIAL FORM ..JUST A CHECK PLUS YOUR CALL SIGN. Of course if you have moved or have a new telephone number, write that down ..a new address on preprinted checks WITH NO NOTE is not adequate ..we do not check addesses on the check against the database.

We usually loose between 60-120 members on August 1st with about half of those having moved and the REST JUST FORGOT TO RENEW.

PLEASE CHECK YOUR ADDRESS LABEL TO SEE WHEN YOUR MEMBERSHIP NEEDS TO BE RENEWED. IF IT READS 9407, THEN THIS IS YOUR LAST SCOPE AND YOU WILL NEED TO RENEW IMMEDIATELY to keep your membership current and to have access to the club's autopatches.

THANKS TO ALL OF YOU WHO ARE RENEWING OR SIGNING UP FOR MORE THAN ONE YEAR. WITH OVER 4,000 BLANKS TO FILL IN THE COMPUTER AT THE END OF THE CLUB YEAR ON JULY 31ST, IT CAN REDUCE MY WORK LOAD BY HALF (on the average). Some club members are signed up until 2004!

The club hit an all time high of 809 members in the middle of July!

(new)/(RENEWED):

4YRS= KE6BH-BILL

3yrs= WT7W-BERRY WA6QBO-DICK wa6yuw-Art kc6ixn-Jack N6HLY-CARL WA6MUW-ART

2yrs= KD6MTL-ALAN WB6JVS-HARRY KD6GEJ-JIM KO6BT-DUANE kc6qht-Jean kd6qma-Tim ke6hib-Bob ke6hib-Bob ko6bt-Duane kc6qht-Jean kd6qma-Tim kc6wzi-Dale Louis-DiFazio W6MK-MILTON KK6DD-FORREST KY6P-BOB N6NAU-TED W6TFB-LLOYD WA6ESG-ED N6PRC-HENRY DAVID-HENDERSON

1yr= WB6TBA-BOB W6HLB-JOE KD6LRA-VAN K6PUN-DOUG KD6FKM-JOHN N6KVO-MARVIN K6UL-MITCH KD6GLF-JAMES WB6TWY-ROY K7NA-VINCE N6DUR-BOB WD6FZX-RAY? N6MYN-DICK W6TET-IVAN N7AMR-ALLLEN WB6AKM-HOWARD KD6RSN-HERB W6SKI-KEN K6PP-GENE WA6HYC-WATT N6ICH-TOM KD6JPP-DAVE WB6TPA-BOB N6HLY-CARL KD6MTL-ALAN W6HOB-JOE WA6MUW-ART K7WLX-ROB KD6LRA-VAN KE6BH-COUNTRYMAN K6PUN-GORDON KD6FKM-JOHN KD6TVL-ADRIAN KC6VDX-JOHNSON KD6VLB-BROOKING WB6IQS-JOHN KK6CA-MILLER WB6PKK-MUNSTER W6TDC-MILLER N6FYJ-BILL WA6MHZ-BUNSOLD KA6TNI-TONY KC6YOZ-BENNETT WB6NBU-BOB N6WQR-BERNICE KC9LV-RICK KC6YSO-DAVID KC6YSP-DOAN KA6OLZ-STEPHENS KB6NMK-JOE KD6YSB-MARVIN GERALDINE-JONES W6LCT-SEAMAN N6QVW-ORLANDO KM6PN-STAN W6LCT-LARRY W6JLU-DON KD6FKN-MAT KE6IX-JOHN W6GHD-DICK N6CKQ-LOUIS WA6HQM-DAVID N6RBS-KEN KA6GRG-CHARLES KD6KQJ-CONRAD N6OPP-BILL W6EPW-VERN KC6TAN-PETTIT N6WEF-FRANK N6WEG-MARYLEE N5HTC-CHAS N5NLV-CHARLOTTE k6ql-Dave kd6fqs-Chuck Ngoc-Dinh Dennis-Markham kd6cyh-Ron ke6fhs-Joel ke6hze-John ke6gsh-Jay ke6hzf-Dennis ke6hzc-Susan wh6cms-Brian ve6rgp-Ron wa6gpw-Nick kc7cif-Leland ke6ezz-Joe kd6do-Gene wb6hpv-Mike WB0BMY-KARL KA5ECR-JOHN KD6VND-BILL WB6WGT-HARLAND NC6J-BOB KB6NRL-FRED ND6W-LOU K6HLU-GENE NU6L-JOE K7DCG-DENNIS KB7YLF-MARK wb6hpv-Mike kd6do-Gene

CHANGES: none

73, Ralph 727-7415

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E N D O F Y E A R

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PLEASE RENEW NOW! SINGLE MEMBERSHIP IS STILL $12 AND FAMILY $21 (12+9).

YOUR LAST NEWSLETTER IS SENT OUT JULY 26 FOR THOSE WITH LABELS 9407 AND YOU WILL NEED TO RENEW BEFORE AUGUST 15TH TO CONTINUE BEING A MEMBER OF PARC. YOUR NEWSLETTER (SCOPE) AND PHONE PATCH PRIVILIGES END AFTER YOUR LABEL DATE OF 9407.

IF YOUR LABEL READS AFTER 9407, YOU ARE SAFE UNTIL YOUR MEMBERSHIP EXPIRES.

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- A G O G O -

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(8-89)(5yr) ..Annual club picnic at Dixon Lake in Escondido ..had an all YL station at June FD ..Mary-KB6NZA passed her Advanced ..Orlando won volunteer of the Year Award from the Mira Mesa Town Council ..Dick-W6OML moved to Sun City ..No-code License debate.

(8-84)(10yr) ..NOTE: 8-8-84 Stan-W9FQN, assisted by Juan Gonzalez, installed & poured the 16T cement base for the club's 70' (now 80') tower on Palomar Mt. Cement was donated by John-WB6MEI along with the rebar needed.

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WB6IQS REPEATERS W9FQN

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We plan on removing the 147.13 repeater in early August for modifications that need to be made: change the audio, add a different controller, reduce 3rd harmonic radiation, and add a BEEPER to indicate emergency 12vdc power. There will be an emergency repeater to replace the .13 and it may or may not have autopatch connections. If it does not have autopatch connections, then members will have to use the other three repeaters. We suggest using 147.075 and 449.425.

There have been no modifications to this repeater by PARC since PARC obtained it last year. =SK=

(7-5) AC power was lost for several hours during the early evening hours shutting down 147.075 and 147.130. As soon as we can pull them off the mountain, they will be modified to automatically switch over to 12vdc when they loose AC power. The other repeaters and the packet have already been modified. When each of the above repeaters are modified this summer, we will add a BEEP every 5-10 seconds on the repeater to advise users that the repeater actually IS ON EMERGENCY power. Several of our controllers will come up with a "P" when they come back onto AC power and will continue with the "P" until reset by a control OP even though the repeater is presently operating on AC power ..and not on 12vdc. At present the "P" means that the repeater is now on emergency power or HAS BEEN on emergency 12vdc power sometime in the past. =SK=

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WB6FMT AUTOPATCHES W9FQN

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During the May time period there were 224 calls made by patch #1, 73 calls by patch #2, and 58 calls by patch #3 for a total of 354 calls. Most autopatches are done from Friday evening to Sunday evening. =SK=

The new autopatch boards were installed in July and everything is working as good or better than in the past.

XXXXXXXXXXXXXXXXXXXXXX

**Printed Circuit Board Design**

*J.T. (Tim) Low*
*N6ZUC*

*Phone or Fax @ (619)735-9125*

*2946 Amanecer Place*
*Escondido, CA 92027*

XXXXXXXXXXXXXXXXXXXXXX

If your antenna system looks like this and you want it repaired, replaced or even removed, please call for a free estimate! Radio systems installation, repair and removal, and interferance resolution.

Edward Ross, N6GZI
542-1405

Antenna Specialties

The major changes that most members will notice are:

1)TOUCH TONES are SURPRESSED (you can't hear the TT's) except for the first digit of the access code, the first digit of the 7-digit phone number, and the "#" when clearing the patch. Surpression of these tones is excellent on .73, .075, and .425 while .13 still has the modified audio circuit in it from when we obtained the repeater. We hope to work on the .13 repeater sometime soon to correct a few of these anoying minor problems.

2)There is now a busy signal that is put out by the autopatch system ON Palomar Mountain when the patch is being used by one of the other three repeaters (the autopatch is switched between 4-repeaters). Since very few members try to use the patch at the same time, we suspect that most club members will never hear the PMt. "busy signal" which has a sound distinctive from the local telephone line busy signal. Wait a few minutes and dial again or check the other repeaters to see where the patch is being used ..and call right after the patch is completed.

3)911 CALLS NOW do not need an update since 911 calls now disconnect the timers on Palomar Mountain. 911 does not disconnect the Section timers (VSTA, MMSA, LMSA) but those timers are RESET every time you make a transmission ..or kerchunk ..so if you are put on hold for any length of time, just kerchunk the repeater and it will reset the Section timers so you can "talk forever" during your emergency.

Club members will find that the autopatch system functions as it has in the past with the exception of the above mentioned changes. <u>YOU ACCESS AND OPERATE THE PATCHES EXACTLY IN THE SAME WAY AS YOU HAVE DONE IN THE PAST! NO CHANGES</u> that you will observe for the present.

The other modifications that have been made allow the club to control and to expand the autopatch system on PMt. and some of these new things will be announced in the SCOPE as they are implemented.

At first glance it appears as though Jerry did a lot of work for

so few apparent changes. The first basic autopatch circuit has been followed closely and the changes that were made were to improve user operation and reliability, to provide easier and more varied control operator functions which members will not always see, and to provide for computer control of output and input. =SK=

It has been suggested that we put a "BEEP" or "TONE" on the repeater when your signal is below a certain signal strength for autopatches ..at least below autopatch quality. This way you would be warned before attempting a patch that your signal is marginal or of questionable autopatch quality. =SK=

The prefix 625 has been added to area section #2 along with 624, & 637. Are there any others that need to be added? =SK=

%%%%%%%%%% Cont.de.pg1 %%%%%%%%%%

Techntn Dop $??; NTR-1 DSP $170; Kenwood TH-27A HT $400; Bearcat Radio Club items $84; ARRL badge & lic plate frame $15; Solder It kit $103; 2m Mobl ant $43; T-1000 ant tuner $150; books $24; 100ft coax $25; Amateur Radio School certs $360; & books $200.

If you don't come, then UR Ed and family have a greater chance of winning!

- E X H I B I T O R  B O O T H S -

Visit the exhibitor's hall and see:

AA6EE Callbook Distributor, A&E Engineering, Advanced Computer Controls, Alinco, Amateur Radio Communications, Amateur Radio School, American Digital Radio Society, Amidon Associates, ANLI antennas, Arizona Airwaves, ARRL 6th Dist QSL Bureau, ARTSCI Inc, Atlas Radio, B&B Instruments, Battery Tech, Bearcat Radio Club, CDS, Entaur Electronics, Charles Simmons, Com Focus Corp, Comer Comm, Comet Ant dist by NCGCO, Commsystems Intermountain, CQ Magazine, Cushcraft, Diamond Ant, Force 12 (Buy USA Inc), GAP Antenna Products, Gordon West Radio Sch, Hal Comm, Hamtown, Hats for Hams, High Sierra Ant, HRO, Hustler Ant, I.C. Eng, Index Publishing, I.T.C. Inst, ICOM America, JPS Comm, Jun's Elect, Kantronics / RF Concepts, Kenwood, Link Comm, Maha Comm, Motron Elect, Nuts & Volts Mag, Optoelectronics Inc, Palomar Engineers, R. Meyers Comm, Radio Bookstore, Radio Control Systems, Radio Eng, Radio Shack, R&J Fial (badges), R.F. Parts, Ramsey Elect, RT Systems, Smiley Ant, Solder-It-Co, Starfire Tec, Startek, Swiech Ant, The Ham Contact, Timewave Tech, Tucker Elect, U.S. Tower Corp, Cindy Wall (author), Wil-Power Bat Dist, Wireman, Worldradio Mag, Yaesu, Falcon Comm, O'Brien Assoc (QSL's), Steve Douglas, Telex Comm, and others.

Just think. You can wander and wonder around the exhibit hall and see the latest equipment and have the distributors answer questions that only you could think of! Meet the famous ..and near famous. Touch everything that doesn't move ..and some that does.

- F O R U M S / T E C H -

And then there are the FORUMS! Stimulating discussions and lectures on current amateur radio topics. Your editor wishes that he could attend them all but even with my "split personality" I am doomed to failure! I might "see you at the forum":

FREE VEC LICENSE EXAMS ON SAT, ARRL, ARES, RACES, EVAC(ATV), YOUTH/ED., DX, MICROWAVE, PACKET, TRI-SERVICE MARS, GPS & AUTOMATIC ANTENNA TUNERS, MOUNTAINTOPPING, ELECTRONIC TROUBLESHOOTING, SATELLITES AND SHUTTLE COMMUNICATIONS, ANTENNA DESIGN & CONSTRUCTION, VHF/UHF SPECTRUM MANAGEMENT, AMATEUR TELEVISION, PUBLIC SERVICE, DUAL DIVERSITY RECEPTION, PUBLIC SERVICE, DUAL DIVERSITY RECEPTION, USING BBS'S, RFI, EMI, T-HUNTING, AUCTION, FLEA MARKET, TESLA COILS, EARTHQUAKES, FACTS ABOUT WIRE & CABLE, TIPS FOR NEW HAMS, AMATEUR RADIO IN THE HOSPITAL, THE SUN & AMATEUR RADIO, A MOBILE CONTEST TRUCK, AND MORE.

Then their is a 6-hour EMI to consumer-electronics equip course @ $10. Contact Sybil-W6GIC 278-4284 to sign up.

- G E T  T O G E T H E R S -

Friday night there is the evening Harbor Cruise with Bar and Dinner. There is a Saturday Night Banquet with STEVE ROBERTS, N4RVE, and his Computerized Touring Bicycle as the main speaker. Steve is a member of PARC and his talk about his experiences peddling around the USA should prove to be most interesting and exciting! Also on Saturday is the Ladies Luncheon for Hams and non-Hams. Then there is the Sunday DX Breakfast. And don't forget the famous WOUFF HONG induction ceremony at midnight. And there are T-Hunts (transmitter hunting) on foot and by vehicle.

- H E L P  N E E D E D -

Eleanor-N6QJE, an experienced exhibitor, and Stan-W9FQN will again have charge of the exhibitors booth in the GREAT HALL where we will be administering to the exhibitors needs both in the hall and at the exhibitors private room.

If you can only come down to help out, we can get you a pass into the GREAT HALL and you probably can see some of the displays as you are walking around ..helping and answering questions. The only qualification needed is having time available to help out. Husband and wife teams work out nicely. We need all or parts of the following time slots covered:

| | | |
|---|---|---|
| FRIDAY .. | 8a->12 | Set Up |
| | 12->8p | Exhibits open |
| SATURDAY .. | 9a->1p | Exhibits open |
| | 1p->5p | Exhibits open |
| SUNDAY .. | 9a->12 | Exhibits open |
| | 12->3p | Take down |

We do not physically help with "set up" or "take down."

This is your opportunity to assist SANDARC in putting on the best SWDiv Convention ever and you can do it with your presence and help. SEE YOU THERE!

%%%%%%%%%%%%%%%
F O R E S A I L mmmmmmmmmmmmmmmm
%%%%%%%%%%%%%%%

Anchors away!

Ph/send ads 2 W9FQN (C Ed's addr) B4 20th of mo. w/ur NAME, CALL, Ph #, & CITY. Personal ads FREE 2 members. Others cost 25c/col. line (35spaces). =SK=

NOTE #1: EQUIP ADVERTISED BY JACK-WDODLW(SK) IN LAST TWO SCOPE's IS ON HOLD. POSSIBLY WILL BE AVAILABLE SOMETIME IN THE FUTURE: Stan W9FQN 749 0276 VC.

NOTE #2: The person wanting CARRIER SHEETS for an electrostatic copier should contact W9FQN: Stan 749 0276 V.C.

NOTE #3: PARC is selling their maritime fleet! Rough water crusier with trailer, winch, wench, lights, ores, etc. See to appreciate. Bring lifesaver(s): Stan W9FQN 749 0276 V.C.

(08-21) TPL 2m amp 10w in 200w out 12vdc SSB/FM with remote plug ex condx $170: John KD6TLF 747 9431 Esc.

(08-19) ICOM 47H 45w mobile $100: Tim NM7V 753 3567 Encinitas.

(7-6) Kenwood TS-130S, PS30, AT130 & desk mike w/stand gud condx: Dee N6ELP 753 5647 Encinitas.

(7-6) new 486-SX-25 computer 2MB Ram 256 Cache both 1.2 & 1.44 floppy dr 250MB HD 101 keyboard 3-but mouse/pad 15" .28NI SVGA 1024x768 monitor mini twr 200w pwr supply 1MB video card MSDos & Windows $800: Ray KK6CA 728 3179.

(7-6) large selection tubes, sockets pwr supplies, xfmrs, xtals, spkrs, hardware, coils, pots, etc. All priced to move: Lee W6TDC 724 7460 Vista.

(7-5) IBM XT Computer & TNC Gud shape $125; AEA Isoloop 10-30m near new $200; can demo both: Tim N6ZUC 735 9125 Esc (THIS IS RACES ESCONDIDO EQUIPMENT). Also packet 145.07 ESN N6ZUC.

(7-5) 15AH 12v VASA sealed batteries $5ea: John Sharp 740 5107.

(6-21)ICOM AC bat.chg BC-30 $25 OBO; Bencher Iambic paddle $40 OBO; MFJ delux elect keyer MFJ-407B $40 OBO; Motorola speaker $5: Curtis N6XXU 727 9254 Vista (wonder what OBO means -Ed).

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770 Sycamore Ave. #J-126
Vista, California 92083

(6-20)C-64 + Packrat best offer; 286 comp + mono + 1M HD $200; Robot Slow Scan w/camera $50: Ron AA7GL 549 4207 SD.

(6-?) Cushcraft A3 tribander beam with HD-73 rotor gd condx partly disassembled $140: Peter KG6JA 591 4400 San Marcos.

(6-14)Working Garant Windom "balun" 80-40-20-10m cost arm & leg new sell to ant Xperimenter w/o ant wire for $20: Russ WB6IOV 436 6714 Carlsbad.

(6-13)Yaesu FT-890AT w/CW filt $975; Yaesu FT-530 dualband HT + 800MHz $350, Delux remote headphones MH-29 $75, FNB-26 HT battery $50, charger NC-28B $20, & charger NC-18B $20; Astron RS-35M 12v DC pwr supply $130: Abe KC6UQA 432 8222 Escondido.

(06-02) HyGain V-2R collinear 2m vert $30; AEA Isopole 2-m vert $30: Duane AA6EE 789 3684 Ramona.

(05-27) XT-5.25FD, HD, monochrome monitor, keyboard, misc softPware $125/orBO; OKI DATA Microline 92 printer w/man. $50; Okidata ML92 Microline printer w/man ex cond $50: Jennifer KM6WG 599 1134 Vista.

(5-12) PK-232MBX packet data controller (#49679) ex con swbox man 1991 not used 4 1.5yrs $200: Joe N6RVO 433 6885 Ocsd.

(4-16) 40'twr climable $100; Heath dual-trace scope 25Mhz w/2 10:1 probes used <5hrs $250: Ted WA6BEJ 944 0639 Leucadia.

(4-5) Commodore C-64 printer new in box $75; Eltro voice mic $25; new FT-5200 OBO, will take 2m only w/large readout; Yaesu FL-2100B 10-80m linear w/spare 572's will demo $600: Larry W7HKI 439 5855 Ocsd.

(03-06) Standard Communications SIA15 Speed Impeller, 11,000 pulses per nautical mile. See W9FQN (with the yellow box) at meetings to view the instructions.

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HIGHWAY ELECTRONICS:parts,(new/old) military. Ask 4Nick,967-7225 2 C if open(10-3pm),305 Wisconsin Ave,Ocsd

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(02-07) IC-24 2m/70cm HT w/PL encode/decode module, charger, 1.2AHr Periphex ragchewers battery, standard .3mah bat, all ex cond $400/offer or trade HF xcvr HW-101, ant tuner, KW linear etc: Mike Hamann WB6CSH POBox 2831, Fort Bragg, CA 95437.

(01-06) ICOM 229H xcvr 50w mobile + ant never used $330: Tito KD6SYE 575 5342 ImpBeach.

%%%%%%%%%% W A N T E D %%%%%%%%%%

"Where art thou?"

PARC IS LOOKING FOR THE FOLLOWING ITEMS (old?) FOR THE REPEATER SITE: large & small hammer, axe, small wood saw, crowbar, small scissors, & old garden hoses. We always seem to need these items when we don't bring them to the site.

(6-10) Hard disk drive for Zenith laptop ZWL-184-97 and manual for ZWL-0200-02: Mike AB6QT 742 1573 P.Mt.

(5-19) Looking for donation or sell cheaply a PK-88 TNC to RACES ESC: Tim N6ZUC 35 9125 Esc (THIS IS RACES ESCONDIDO)

(04-05) HF xcvr 12v-110ac for IOTA(expo) possible early ATLAS-210-215 for IOTA-(expo) 12v-110v; 930 Kenwood & access CPI-MBATEXT for Commodore 64 (RHY); electronic keyer/paddle; Kenwood older mobile 2m 2400 50w? or other: Larry W7HKI 439 5855 Ocsd.

(03-14) Schematic for URN-25F SigGen: Dennis N6KI 271 6079 SD.

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V E T E S T I N G AA6OM

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N.Co.FCC LICENSE EXAMS given by the PARC VE Team @ Carlsbad Safety Ctr, Carlsbad (Camino Real to Faraday, 14F6, follow CSC signs East) on 2nd Sat. @ 10am. Reservations less than 2da in advance & walk-ins not normally accepted. VE info: call 465-Exam or Rusty at 747-5872.

610 FORMS AVAILABLE: HRO, 5375 Kearney Villa Rd. or at club meetings from KB6NMK or W9FQN. An SASE sent to your editor will also get you a 610 form.

JUL 9th TESTING:

TECH->EXTRA: Mike Breaux.

NONE-TECH: Pete Bierle & Chris Thompson.

EL2 PASS: Lynette Foltz & Steve Prough.

TEST TEAM: WA6HYC, KB5MU, KI6JM, AA6OM, N6ZUC, W6YYV, & KE6VX.

JUL 11th SPECIAL NIGHT TESTING: NONE->TECH: Constance Bierle, Dirk Flint, Diana Smittle, Warren Donnelly, & Margos Miranda.

EL3B PASS: Gerald Clements Sr.

TEST TEAM: WA6YOO, AA6OM, & WB6R.

73, Rusty-AA6OM

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L E T T E R S to the E D I T O R

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UR editor and the board reserve the right to publish/edit all letters.

(de Jack-WB6AXW) I have been a ham radio operator for over 36yrs ..Tuesday, June 28, was one of the greatest days in my years as a ham ..I have always been a fan of 6m AM a long time ago ..now 6m SSB. About 8am ..I turned on my old TS-600 to the calling freq of 50.125MHz. The sound coming from my speaker was like 40m on Field Day ..the KD7's, KE7's, K0's, K5's and Cuba (CM3ZD) ..the band went from 50.110 to 50.2 ..each 5 or 10KC had a QSO on it.

I got my log and pen to write down all I could work ..40 contacts later I stopped calling CQ.

The best news was still to come. At about 19:47GMT it was time to turn on the 2m SSB rig, an old TR-9130 all mode. I set it on 144.2 upper sideband. Within 2min I contacted N7DB at 19:50 on 144.200. He had a 5-3 sig with QSB ..then at 19:58 I worked W7INX ..the two were in grid sq CN-85. I also heard N0XX/7 in CN-84 at 20:02GMT ..all on 2m SSB.

Within 2hrs my QSL cards were on the way in the U.S.Mail.

This summer keep your 6m and 2m radios on (and check the above frequencies -Ed). =SK=

(TO SYBIL-W6GIC) Here's what I did with the information you gave me on Palomar ARC's new ATV repeater (see SCOPE photo). It will be in UP FRONT in QST in August. Please share it with Bill Smith, KB6MCU, and anyone else who might be interested.

I really enjoyed meeting you, and thanks again for your help with the video course. -de Mark Wilson, AA2Z, Editor, QST. (This is the 2nd W6NWG photo in QST's UP FRONT this year! -Ed) =SK=

(de Vern-W6EPW) ..while on subject of checks I noticed that the July issue of SCOPE had a note regarding my check on page 11. This note prompted a very interesting chain of events. After reading the note I contacted the bank ..according to CA state banking laws I am entitled to double the amount of the kited check. Since my check was kited from $149.99 to an amazing $1,499.90. They are therefore sending me a check for $2449.80 ($2599.80-149.99). This is a welcome windfall and I am immediately buying life membership in all local clubs. (you forgot SASE ($.29) for patch info!) =SK=

%%%%%%%%%%%%%%

E D I T O R

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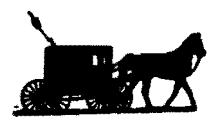

Thanks to all of you who send in info for the newsletter early in the month. Early items have more of a chance to "make it" into the SCOPE since the SCOPE is almost in its final form by my deadline each month ..and your item might have to wait until the next issue.

Some items are very interesting but will be just as interesting later on when I have more space so I type them up immediately and "save" them in the computer until the "right" time. Items are selected on the basis of "timely", "general interest", and "importance." Unfortunately, ur editor is the sole judge of these items except when receiving direction from the PARC Board.

I would like to publish items of interest to club members and to keep them informed about club activities. Your help in this matter would be greatly appreciated. Your present editor (along with past editors) often wonder really how much of the SCOPE is read by our membership.



BOARD MTG THUR, AUG.11th, 1900 Hr, WA6YOO's QTH

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F I N A N C E W9FQN

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PREPAID DUES is money collected for the 1994-95 club year (Aug 1st->Jul 31st). Remember, this is being written in July '94. Most of the money is not available for club use until August 1st 1994 and then because some dues are paid up until 2004, that money from August '95 until August 2004 is available only in succeeding one year increments in each following year. RULE: we can only spend what has been paid in the year in which we are operating. We cannot spend future years dues until they are available.

The General Fund ($550) probably has enough in it to finish out the club year but it might be close. The Equipment Fund balance ($2022 -$700 worth of lightning protection being ordered) is probably enough to finish out our summer projects which includes more grounding projects and the ordering of several "black boxes" ..and then it will grow during the winter months at the rate of approximately $230/mo when there is usually not as much activity.

PARC has always tried to conduct its financial matters in a business like manner which accounts for the fact that our club owns a repeater site property, 11 repeater systems, autopatch facilities, 4.5 trailers, 8+ crankup towers, and assorted "junk" which your editor would like to see some of it moved from his garage and property. You probably cannot name one other club in the world with the resources that PARC has at its finger tips ..all done on dues of $12 per year and with generous donations from club members. And of course you cannot ignore the donation of time and effort by many of our club members (especially the technical committee, club officers and our newly formed ATV group) who have made PARC what it is today. Yes, we probably do have faults from time to time but our successes far out number our failures and omissions.

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**Loyal M. Hanson - W9WV**
**Fallbrook, California**

PARC is probably one of the biggest "non-repeater associations" in the world which functions as a full service club. We also are the only CLUB in the San Diego area which has significantly increased its membership during the past five years. Most SD clubs are lucky to have the same number of members that they had five years ago although many have decreased in membership. PARC is over 2.5 times larger in 1994 than it was five years ago so we must be doing something correctly ..or we are fooling a lot of folks a lot of the time.

In the SDCo area we seem to have: a)Full Service Clubs, b)Clubs, c)Repeater Associations, and d)High priced Groups (large & small) run mainly by private individuals with all sorts of repeater goodies and where the members have little to say about their operation.

PARC is not a rich club even though financial reports attribute fairly large sums of money from time to time to us. It needs to be remembered that some of our members have seen fit to pay their dues up to the year 2004 and this money is only available to the club on a one year basis with the start of each new year. PARC has always tried to show financial responsibility to our club members in the way it has conducted its business. PARC members get more for their dollar with PARC than any other CLUB "in town."

At this time the club has not seen fit to increase dues since we have been able to take care of all club expenses and needs with our present dues structure. We want to make the club attractive to those who do not have the money for the more expensive clubs and associations that require $65 to $100+ membership dues plus initiation fees. Despite PARC's lack of "big" income dues, PARC owns its own repeater site (we know of no other club or group that owns its own site), three trailers, 80' tower, eight crankup towers, seven repeaters, the only Amateur TV station broadcasting to 2,000 square miles of SDCo, the equivalent of four to twelve autopatch systems (depending upon how you look at it), thousands of dollars of coax/heliax, three buildings, 3,200 AHr of emergency batteries, etc. What club do you know that charges $12 a year dues can match PARC?

The club newsletter, the

SCOPE, costs the club $5.64/yr/member (does not take into account advertising income) and insurance for the club and its members is around $1.50/yr/member. The rest of this money is available for club activities: Field Day, Picnic, supplies, telephones (5), San Diego Gas & Electric, etc. At the end of the club year any surplus money is moved to the equipment fund account.

At present, money for the Equipment Fund comes from 1)year end General Fund surplus (if any), 2)donations, 3)equipment sales, 4)rentals, 5)SCOPE advertising, 6)goodie table, etc. which means that the equipment fund has money coming in on a regular basis throughout the year while the operating fund plunges towards zero at the end of the club year. Note that the Equipment Fund is not supported by your club dues except for any surplus money in the General Fund at the end of the year which is transferred as surplus to the Equipment Fund.

In general our Equipment Fund takes care of the repeater site capital items and Field Day capital or hardware items and the General Fund (your dues) takes care of the normal day to day operation of the club: SCOPE, postage, phone lines, supplies, picnic, brochures, etc.

At the end of the club year any surplus money from the General Fund is placed into the Equipment Fund. There will probably be no surplus this year ..in fact there might be a small deficit which would have to be made up by the Equipment Fund . The club's biggest expenditure this past year has been towards the ATV project and then PARC contributed less than 20% of that amount so far.

Contrary to what some club members might think, PARC does not have "surplus" monies and there are no plans to raise the $12/year club dues (+$9 family). If you like spending $65-150/year, you will have to join another group. =SK=

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## W O R K   P A R T I E S   W9FQN

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REPEATER SITE WORK PARTIES, IF HELD, ARE USUALLY SCHEDULED THE SUNDAY FOLLOWING THE CLUB MEETING ..and as needed. We meet at MOTHER'S KITCHEN on PMt at 10:30am. Please bring 5-10gal of water with you for our "little seedlings."

NEXT WORK PARTY IS AUGUST 14TH: grounding, tower work, heliax runs, painting, site work, security work, brushing, etc. Contact W9FQN for additional info.

SEE PAGE 7, SALE-WANTED, for items we need donated to the site.

(6-24) JOEY-NU6L, PARC's Chief Electrician, broke up the SDG&E circuit into a master 100A circuit breaker feeding two 50A breakers. One 50A leg for the old block building and the other leg for the new (freezer) building. He was assisted by STAN-W9FQN who was a "third hand" for drilling and holding of breaker boxes. After Joey left, Stan labeled all of the repeaters with their frequency, function, and the name and call of the Tech having responsibility for that repeater. He also watered all of the little trees which PARC is encouraging to grow plus four that were transplanted a month ago.

(6-30) The "Racket" Radio was reported off the air and Mountain MIKE-AB6QT, after work, discovered that the AC switching power supply had failed. The AC power was still inside the cabinet so the unit did not switch over to 12vdc. Mike removed that AC supply and took it home for "bench work" and left the packet machine on 12vdc power.

(7-1) DAVE-KD6EBY, while on a battery inspection, noted the the temperatures in the new building were only 5 degrees above ambient. Now we need to work on making the inside temperatures at least 5 degrees below ambient. Any ideas?

(7-2) JERRY-WB6FMT installed the next phase of the autopatch system (see AUTOPATCH) and after a few minor problems the new system was up and running. Since everything is modular plug-in the old system is being saved for emergencies. When everything was completed it was discovered that the 147.075 repeater failed to connected up to the system so it is out of service until the problem is found.

STAN-W9FQN provided an extra hand during the autopatch testing, watered the little trees, and moved the 55gal barrel of water from the new building roof to the roof of the generator shed where the barrel is easier to fill with 1-gal jugs of water.

GEORGE-KK6KD of the 220 AMERICUS UNITED group came up to find out why their signal was poor and discovered a relay had stuck in the "off" position. The problem was fixed and their signal was back up to normal. George was accompanied by his son and by friends.

MIKE-AB6QT visited the site for an hour and found 10A blown fuse in the DC line of the Packet repeater cause of the blown fuse has apparently been traced to a fuse holder with a high resistance causing the 5A load to heat up the fuse holder thru contact resistance to the point where the fuse link gives way giving us a blown fuse. He will keep checking to see if this is the problem. Very strange problem but one that has happened before with other equipment.

(7-10) JOHN-WB6IQS helped the (A)mericas (U)nited group, 224.380 work on their amplifier problem and also talked to Jerry-WB6FMT about what needed to be done to get the autopatch re-connected to the 147.075 repeater. Task accomplished. All autopatches are now connected to the new system placed on the hill 7-2. (see AUTOPATCH page 6). John also spent quite a bit of time this past week working over an "answering machine" used in one of our club projects.

GEORGE-KK6KD added a ground to the 224.380 'A.U." repeater and was assisted by other members of his

group: Dennis-KE6HZF, Sue, Daniel-KD6DKM, Alfredo-KD6TYX & Ricardo. After George returned home he discovered that his repeater pre-amp was not working properly ..so another trip to the mountain sometime soon.

DAVID-KC6YSO installed additional backup alarms in all three buildings and helped where needed. I appreciate your help, David.

STAN-W9FQN put stakes in by all of the seedling trees that we are trying to encourage growing, painted part of the shingle roof of the old block building with silver paint along with the entire roof of the new building in an attempt to reduce the temperature in the repeater buildings. Dennis and Sue helped with the watering of the seedlings. Stan also cut down several trees across from the block building that were a fire hazzard.

There were 800 members in the club in June and despite an announcement of the work party in the SCOPE and at the club meeting, only three club members showed up to work on PARC projects. Needless to say, there were lots of projects on our list not started and none completed. Sort of reminds me of ALICE IN WONDERLAND: "You have to run twice as fast just to stay where you are."

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Thanks to:

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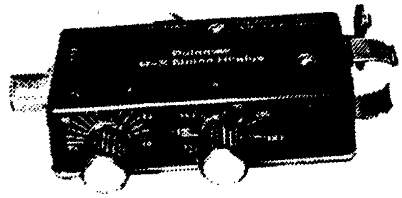
Dennis-N6KI for showing your editor how to take the back seat out of KA6FPS's car so that radio cables can be installed. =SK=

Ted-KD6AKT for giving advice to an OTer who was running his access code and telephone numbers together. =SK=

Frank Craig-WJ6U for the $10 donation towards the selling of Jack White-W6SMP's SK estate. =SK=

Maxine Cole and family for the donation of $50 to the club in memory of Tom Cole, K6EPS. They sent along a special thanks to Dennis-N6KI, Harry-WA6YOO, and Frank-KI6YG for their unselfish help. A decision has yet to be made on the use of the donation. =SK=


**R-X Noise Bridge**



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Mark-N6NNI for introducing Dexter-KE6FXM to PARC.

Wilma White, wife of deceased W6SMP for a $50 donation to the club for helping dispose of his ham gear. Frank Craig also helped PARC.

NOTE: PARC helps with the disposal of deceased hams radio equipment and makes to charge for doing so although many families are so pleased with the job done by PARC that they make a contribution to the club. In most cases, the small items and small parts are GIVEN to the club to sell directly and the club keeps this small change.

DAVE-KC6NE for the donation of a new small oscilloscope for use at the repeater site but since it is French made we will have to figure out what all the controls mean. Dave operates WIRELESS WORLD in Laguna Niguel where he sells-trades on consignment vintage radios and newer used radios. He has a large selection of mint Collins gear. =SK=

MILT-W6MK for copies (many issues) of the W5YI report ..which keeps your editor up to date and are used in the SCOPE from time to time. DENNIS-N6KI is also good about sending informative articals to your editor. =SK=

LARRY-WA6UTQ for packet information. =SK=

MARK-KD6WQK for the 5-pin DIN plug and chord. =SK=

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- N E W S -

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Contributions should arrive by the 20th of the month.

On SEPTEMBER 3rd the PALOMAR FIRE DEPARTMENT (JIM-KC6PAS is a member) will be holding their annual LABOR DAY BARBEQUE at the new Fire Station (dedicated May 28th) for the benefit of the fire department. We hope that many of our club members will support this event. The food is great and it helps support the fire department which is important to PARC. Why not gather up the family and some of your amateur radio buddies and we can all meet up on Palomar Mt. for the Barbeque. Afterwards we could arrange a tour of the repeater site. Be sure to wear your PARC hat and name tag ..and carry a couple of HT's on your belt! (This location might make a good Field Day site sometime -Ed) =SK=

There was a band opening on

## PARC Membership Application

| | |
|---|---|
| AMATEUR CALL | |
| CLUB MEMBERSHIP? | ☐ NEW ☐ RENEW |
| ARRL MEMBER? | ☐ YES ☐ NO |
| LAST NAME | |
| FIRST NAME | |
| STREET ADDRESS | |
| CITY | |
| STATE ZIP | |
| HOME PHONE | |
| WORK OR OTHER PHONE | |
| HAM LICENSE EXPIRES | |
| FAMILY MEMBERSHIP (List other calls and names) | 1993 |
| CLASS OF LICENSE | N T T+ G A E |

2mFM to Hawaii around 7-11 with many club members working other amateurs 2,000 miles away. Many times these band openings are height specific. One Hawaian amateur during openings drives up the side of a mountain until he hears the signal clearly ..and the same technique can be applied here in San Diego. Ask John-KD6CDH about his experiences with 2mFM ducting and the frequencies used.

Mail this form with your check to PARC, P.O. Box 73, Vista, CA 92085-0073 or hand to membership chairman at club meetings. We prefer checks to cash, it's safer and you have a record. Dues are $12 a year which includes $3 for the Scope, or $21 for a family all at the same address. Consider paying for two or three years at a time to reduce the work for the membership chairman.

Name, call and complete address are required. Telephone number is requested but may be unlisted in roster if you prefer.

For notification of acceptance and an autopatch information and code sheet send SASE with application or the receipt of the next newsletter mailed the last week of each month will be your only notification.

Tropospheric ducting many times occurs at about the 1,000 foot level and besides listening for other amateur stations and repeaters on 2m you might try listening to some of the distant weather stations on 162.400 and 162.550 ..if the local wx stations are not to strong. =SK=

If you were a member of a FD group this year, your editior would appreciate your sending him information about the total number of contacts, contacts on each band in each mode (CW/SSB), number participating with names and calls, classification, etc for publication in the SCOPE. =SK=

Barbara-KA6FPS reports that there is a 60 second window as you pass Christianitos road on I-5 while passing thru San Clemente where you can make a quick call on all of our repeaters. Several times she has pulled off on the off ramp and run autopatches from that location. =SK=


# SCOPE

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